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PAGE: 1 TECHCENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/164,714A

DATE: 04/20/2000
TIME: 12:08:31

Input Set: I164714A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Tucker, Kenneth D.
2 Tillmann, Ulrich F.
3 <120> TITLE OF INVENTION: MORAXELLA CATARRHALIS OMP21 POLYPEPTIDE, GENE SEQUENCE
4 AND USES THEREOF
5 <130> FILE REFERENCE: 7969-074
6 <140> CURRENT APPLICATION NUMBER: US/09/164,714A
7 <141> CURRENT FILING DATE: 1998-10-01
8 <160> NUMBER OF SEQ ID NOS: 21
9 <170> SOFTWARE: PatentIn Ver. 2.0
10 <210> SEQ ID NO 1
11 <211> LENGTH: 40
12 <212> TYPE: PRT
13 <213> ORGANISM: Moraxella catarrhalis
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16 1 5 10 15
17 Lys Ile Gly Gln Val Asp Ala Lys Gln Ile Asn Gly Lys Asn Thr Ala
18 20 25 30
19 Tyr Gly Ile Tyr Ala Gly Tyr Asn
20 35 40
21 <210> SEQ ID NO 2
22 <211> LENGTH: 17
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
27 <220> FEATURE:
28 <221> NAME/KEY: modified_base
29 <222> LOCATION: 6
30 <223> OTHER INFORMATION: n=a, c, g, or t
31 <220> FEATURE:
32 <221> NAME/KEY: modified_base
33 <222> LOCATION: 12
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35 <400> SEQUENCE: 2
36 gaygcncarc cntaygt
37 <210> SEQ ID NO 3
38 <211> LENGTH: 17
39 <212> TYPE: DNA
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 47 <220> FEATURE:
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 50 <223> OTHER INFORMATION: n=a, c, g, or t
 51 <400> SEQUENCE: 3
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 53 <210> SEQ ID NO 4
 54 <211> LENGTH: 20
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 61 <222> LOCATION: 3
 62 <223> OTHER INFORMATION: n=a, c, g, or t
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 64 <221> NAME/KEY: modified_base
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 66 <223> OTHER INFORMATION: n=a, c, g, or t
 67 <220> FEATURE:
 68 <221> NAME/KEY: modified_base
 69 <222> LOCATION: 15
 70 <223> OTHER INFORMATION: n=a, c, g, or t
 71 <400> SEQUENCE: /4
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 73 <210> SEQ ID NO 5
 74 <211> LENGTH: 20
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 76 <213> ORGANISM: Artificial Sequence
 77 <220> FEATURE:
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 91 <400> SEQUENCE: 5
 W--> 92 atncrcrtang cngtrtttytt 20
 93 <210> SEQ ID NO 6
 94 <211> LENGTH: 543

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95 <212> TYPE: DNA
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99   aacgctgcca tcagctatgg caattctgct gatgctcaac cctatgttgg tgccaaaatt 120
100  ggtcaagtag acgccaagca aatcaacggt aagaacaccg cttatgggat ttatgcaggt 180
101  tataactttg accaaaattt tggcgtagaa cccgaatttg ttggttcaga cgccaaagaa 240
102  tttaatgcag gcgtgagtcc tgtaaaaggt gatgtgaagt cttttgggtgc ttatggcaca 300
103  tatcgctata acttcatcaa taccctatct tatgccaagg gcaaataggg cattgctaag 360
104  actaaagtag atgttaccag ccgtaatgca actacatact caaacaaaag cgacaaaacc 420
105  agcctagcag gcggtgttgg tgttggcttt aaaccattag caaatgtggg cgttgaagca 480
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107  taa 543

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114   1           5           10           15
115 Ala Met Ser Ala Asn Ala Ala Ile Ser Tyr Gly Asn Ser Ala Asp Ala
116           20           25           30
117 Gln Pro Tyr Val Gly Ala Lys Ile Gly Gln Val Asp Ala Lys Gln Ile
118           35           40           45
119 Asn Gly Lys Asn Thr Ala Tyr Gly Ile Tyr Ala Gly Tyr Asn Phe Asp
120           50           55           60
121 Gln Asn Phe Gly Val Glu Ala Glu Phe Val Gly Ser Asp Ala Lys Glu
122           65           70           75           80
123 Phe Asn Ala Gly Val Ser Pro Val Lys Gly Asp Val Lys Ser Phe Gly
124           85           90           95
125 Ala Tyr Gly Thr Tyr Arg Tyr Asn Phe Ile Asn Thr Pro Phe Tyr Ala
126           100          105          110
127 Lys Gly Lys Leu Gly Ile Ala Lys Thr Lys Val Asp Val Thr Ser Arg
128           115          120          125
129 Asn Ala Thr Thr Tyr Ser Asn Lys Ser Asp Lys Thr Ser Leu Ala Gly
130           130          135          140
131 Gly Val Gly Val Gly Phe Lys Pro Leu Ala Asn Val Gly Val Glu Ala
132           145          150          155          160
133 Ser Tyr Asn Tyr Leu Ser Glu Asp Ala Asn Ala Ile Ser Leu Gly Ala
134           165          170          175
135 His Leu Ala Phe
136           180

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139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
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142 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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144   ccctatgttg gtgcaaaaat tgggtcaag

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PATENT APPLICATION US/09/164,714ADATE: 04/20/2000
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155 <212> TYPE: DNA
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160 gttcttaccg ttgatttgct tggcatct 28
161 <210> SEQ ID NO 11
162 <211> LENGTH: 28
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
167 <400> SEQUENCE: 11
168 cttgaccaat tttggcacca acataggg 28
169 <210> SEQ ID NO 12
170 <211> LENGTH: 18
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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176 gcgacaaaac cagcctag 18
177 <210> SEQ ID NO 13
178 <211> LENGTH: 18
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/164,714ADATE: 04/20/2000
TIME: 12:08:31

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195 <212> TYPE: DNA
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202 <211> LENGTH: 45
203 <212> TYPE: DNA
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226 <211> LENGTH: 40
227 <212> TYPE: DNA
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229 <220> FEATURE:
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235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
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Input Set: I164714A.RAW

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52	W	"N" or "Xaa" used: Feature required	tgyttngcrt cnacytg
72	W	"N" or "Xaa" used: Feature required	gcngaygcnc arc cntaygt
92	W	"N" or "Xaa" used: Feature required	atncrcrtang cngtrtattytt